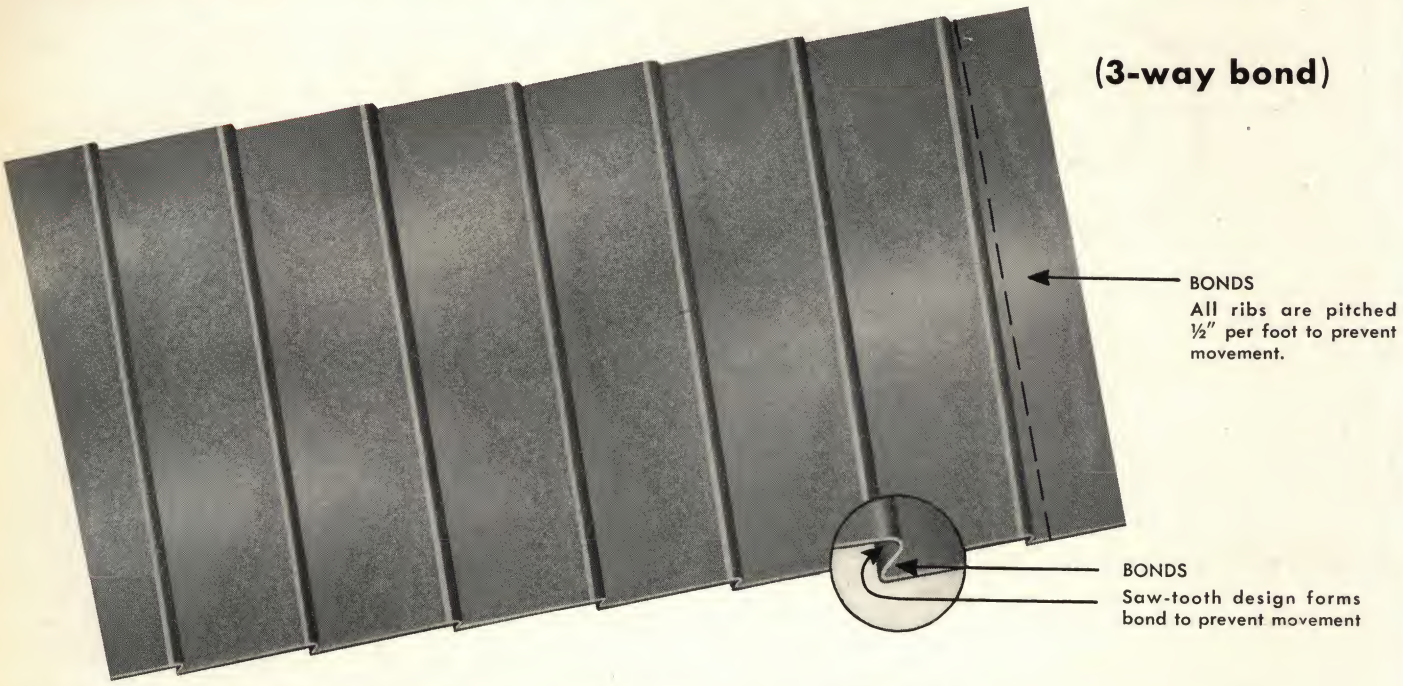
CHASE

copper roofing and roofing products

CHASE BRASS & COPPER CO. — INCORPORATED — WATERBURY, CONN.

CHASE thru-wall copper flashing


(3-way bond)
BONDS
All ribs are pitched ½" per foot to prevent movement.
BONDS
Saw-tooth design forms bond to prevent movement

features of Chase Thru-Wall Copper Flashing . . .

1. Saw-tooth corrugations that form a mechanical key bond in the mortar — vertically as well as laterally.
2. Perfect drainage so that, if moisture should penetrate a wall, it will drain quickly.
3. It provides for expansion and contraction.
4. An interlocking overlap that requires no soldering.
5. A stiff counterflashing face that hugs the wall tightly after the base flashing has been installed.
6. It may be readily bent by the Sheet Metal Contractor.

Convenient size . . . Chase Thru-Wall Flashing comes in sheet form in standard widths up to and including 34" wide and in 6-ft. lengths. These sizes result in the most economical installation costs.

Economical. . . Chase Thru-Wall Flashing is reasonably priced and economical to use. The interlocking "Saw-tooth" feature makes a watertight joint without the use of solder.

Always available . . . Chase Thru-Wall Flashing is sold by our 21 warehouses throughout the country. This warehouse service oftentimes eliminates costly delays.

why thru-wall flashing is needed

Masonry walls cannot be depended upon to be permanently waterproof, even though the brick, stone, terra cotta or other materials may be waterproof as a unit and the mortar used may be rich enough to be considered waterproof. The shrinkage of these materials and the natural movement of the building may cause a masonry wall to leak.

It is, therefore, desirable to have flashing located to prevent rain water or moisture that may enter the exterior wall from coming in contact with steel or wood members in the wall, and seeping into the inside of the building.

The penetration of water through walls and roofs is one of the principal problems of Architects and Construction Engineers in the building industry. Copper Thru-Wall Flashing when properly installed helps to prevent leaks and solve drainage and penetration problems.

thru-wall copper flashing CHASE

There are several kinds of material that are used as Thru-Wall Flashing. These materials include saturated felts and fabrics as well as sheet metals.

We have followed the flashing problems of the building industry for many years, adapting our Copper Thru-Wall Flashing to the needs of the Architects, Engineers, and Sheet Metal Workers. The importance of installing Copper Thru-Wall Flashing, because of its resistance to corrosive action, cannot be over-emphasized. *Flashing once built into the wall cannot be replaced when worn out or corroded without tremendous replacement cost.* It is economical, therefore, to specify durable Thru-Wall Copper Flashing in the first place.

BONDS IN ALL DIRECTIONS—LATERAL AND VERTICAL

specifications for architects

All flashing through masonry walls shall be Chase Thru-Wall Flashing as manufactured by the Chase Brass & Copper Co. Flashing shall be of 16-oz. soft copper formed into a series of ribs shaped to a "saw-toothed" design at intervals of not more than 3½" and pitched ½" per foot so as to provide a mechanical key bond in all directions. End joints shall be interlocking and overlap at least 3" so that a watertight joint is made without soldering.

Here is a typical example of Chase Thru-Wall Flashing being installed under coping stones. The flashing prevents moisture from seeping through and into the wall itself.

CHASE copper roofing products

Copper has long been generally recognized and accepted as providing long life for use in building construction. Durability is an important factor in all types of buildings large and small, commercial, public and residential. Therefore, it should always be specified for all metal work for roofs, flashings, downspouts, gutters and all types of roofing accessories.

Copper will give the best results when it is properly installed. Construction details as recommended by the Copper & Brass Research Association should be carefully followed.

Keep in mind that the paramount purpose of the whole roofing, flashing and drainage system is to shed water and carry it away from the building. Valleys and flashings should be constructed so as to lead water away. Wall flashings should be installed so as to turn all water and moisture to the outside face of the building wall.

Thickness of copper roofing

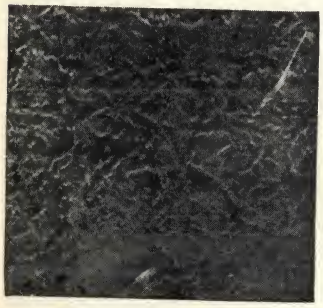
16-oz. copper is considered standard for general sheet metal work in building construction. Lighter weights, such as 10-oz., have been satisfactorily used for sloping roofs of residences in suburban or rural locations. 16-oz. should be used for gutters, downspouts or valleys. On industrial and monumental building constructions, weights up to 32 oz. per square foot are recommended for built-in gutters, as well as other points where erosion or stresses set up by expansion and contraction might be severe.

CHASE

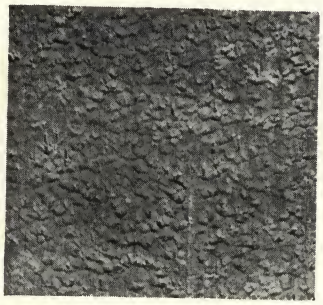
lead coated copper

All Chase sheet, roll and strip copper, and Chase roofing products can be furnished lead coated, with a wide range of finishes from rough heavy coatings to light smooth coatings available from mill stocks.

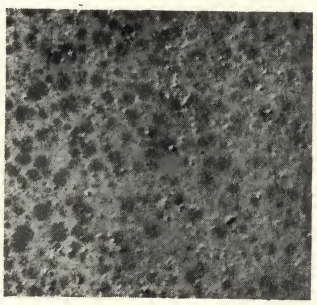
Lead coated copper has the neutral gray coloring of solid lead, the added advantage of lightness, easy working qualities, lower basic cost and is supplied in the following finishes:



Chase Commercial Finish: Coated with 12 to 15 lbs. of lead per 100 square feet on both sides.



Chase Puritan Finish: Coated with 25 to 30 lbs. of lead per 100 square feet on both sides.



Chase Colonial Finish: Coated with 40 to 50 lbs. of lead per 100 square feet on both sides.

cop-o-top CHASE

for waterproofing and damp-proofing

Chase Cop-O-Top is furnished in standard widths in rolls 120 ft. long. It is easy to handle and easy to install.

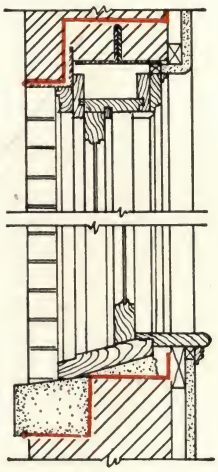
Chase Cop-O-Top is a most practical type of material for concealed sheathing, waterproofing and damp-proofing purposes.

In masonry construction, it is recommended for waterproofing heads and sills of windows, spandrel beams and many other places where flashing is not exposed and where first cost is important. For residences, Cop-O-Top is recommended for flashing windows and doors, and for sheathing sidewalls, roofs and attics to prevent infiltration of dust, air and dampness. It is also recommended for damp-proofing cellars and foundations, and for protection against termites and other vermin.

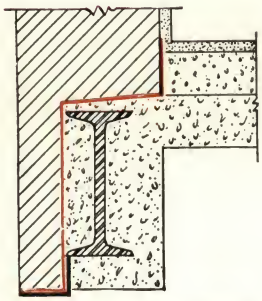
Chase Cop-O-Top consists of one layer of thin sheet copper — 1, 2 or 3 oz. and 1, 2 or 3 layers of asphalt saturated creped paper. All layers are strongly bonded with asphalt to form a single sheet that is extremely tough and flexible, and may be handled freely without tearing, kinking, cracking or puncturing. It can be folded and formed by hand to fit into nooks and corners, and around odd shapes without breaking.

Chase Cop-O-Top is installed quickly and easily as the masonry progresses. It is laid with the copper side up.

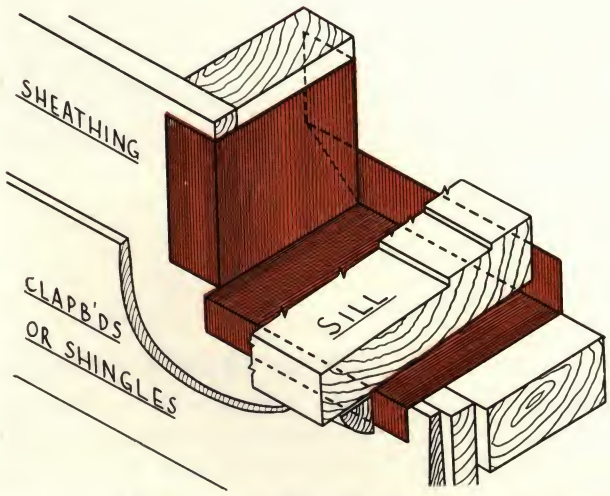
These features, together with the corrosion-resistant advantages of copper, make Chase Cop-O-Top especially practical for all types of waterproofing and damp-proofing.



Chase Cop-O-Top flashing around window heads and sills.



Waterproofing spandrel beams with Chase Cop-O-Top; install with 6" laps trowelled with asphalt.



Chase Cop-O-Top drip pan for flashing under window sills. (Note: The 30" roll can be cut into 4 strips—7½" wide).

Specifications

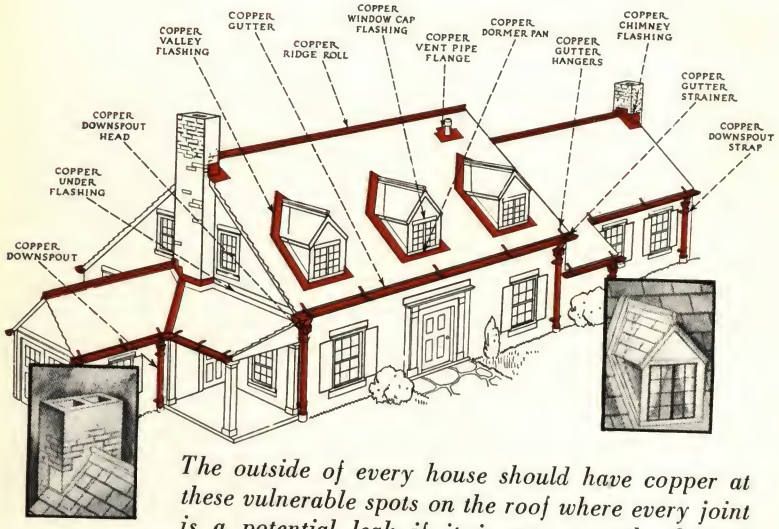
All membrane waterproofing shall be Chase Cop-O-Top (1 oz.—1 ply); (1 oz.—2 ply); (2 oz.—2 ply); (3 oz.—3 ply); consisting of one layer of sheet copper as designated, bonded to (1), (2), (3) layers of building paper, thoroughly impregnated with a bituminous compound and creped to allow a minimum stretch of 12%. The layers of copper and the several plies of saturated building paper shall be inseparably bonded together with asphalt to form a single flexible sheet that will not easily kink or crack when forming by hand.

To be installed with copper side facing up or toward the outside of the building.

Standard sizes

Chase Cop-O-Top is furnished in standard rolls 10, 12, 15, 20, 24, 30, 36, 40 and 60 in. wide by 120 ft. long. Other widths can be made to order. It is regularly supplied in 1 oz.—1 ply; 1 oz.—2 ply; 2 oz.—2 ply; and 3 oz.—3 ply. Other combinations can be made to order.

CHASE copper roofing products



The outside of every house should have copper at these vulnerable spots on the roof where every joint is a potential leak if it is not properly flashed.

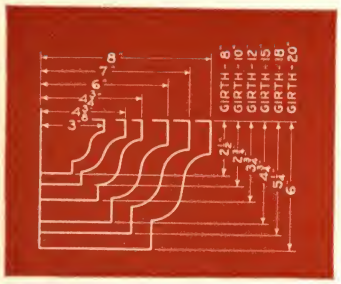
Durability is an important factor in all types of buildings large and small, public and residential. Therefore, Copper should always be specified for roofs, flashings, downspouts, gutters and all types of roofing accessories.

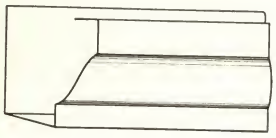
Copper gutters

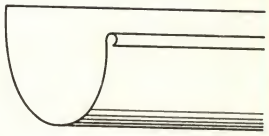
Chase Gutters are made from 16 oz. copper. Heavier weight can be furnished to special order but we do not advocate nor make anything lighter than 16 oz.

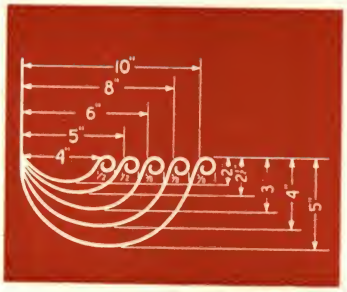
Copper gutter hangers

Chase Gutter Hangers are made in two types, the strap hanger and the shank and circle hanger. We can supply a wide range of copper and bronze hangers for round gutters and style "K" box gutters.







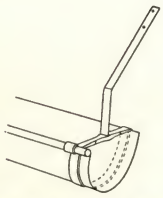


Style K — O. G. box gutters

Style K, O. G. Box Gutters are made in 10 ft. lengths from 16 oz. copper and are usually carried in stock in 10″ and 12″ girths; other sizes can be made to order.

Half round copper gutters

Chase Half Round Gutters are uniform in width throughout the entire length and true to size and shape. Standard gutter is Single Bead, Lap Joint; Sizes 4″ to and including 10″. Lengths 10 ft.

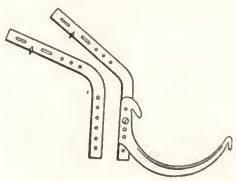


Chase strap hangers

Chase strap hangers are made of heavy gauge copper and can be supplied for 4″, 5″ and 6″ gutters. The strap encircles the gutter as illustrated, and is attached to the roof.

Chase monarch hangers

The Chase Monarch shank and circle hanger, stamped from heavy gauge copper, is adjustable to fit varying roof pitches. The outside tip of the circle is bent over the bead after installation to lock the gutter firmly in place.

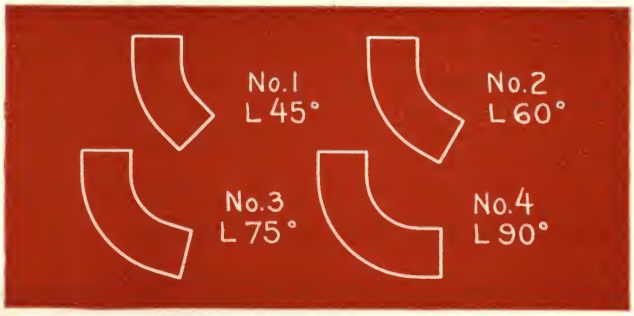


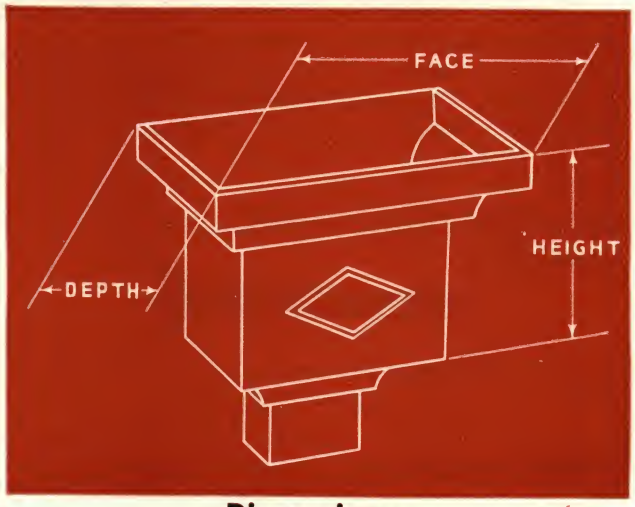
Chase type B hangers

Type B shank and circle hangers are made of cast bronze, or stamped copper or bronze. Various types of shanks are available to fit every installation.

The following are the dimensions of square corrugated downspouts: Diameters of round and corrugated round downspouts are listed in description at right.

List Size	Short Side (A)	Long Side (B)
2″ (1 x 2)	1⅞″	2⅜″
3″ (2 x 3)	2¼″	3″
4″ (3 x 4)	2¾″	4 3/16″
5″ (4x 5)	3⅝″	5 1/6″





Dimensions
(Subject to Commercial Variation)

Pattern	No.	Outlet		Face	Depth	Height
		Square	Round			
Large Dia.	1A	2″x3″	3″	10″	6″	9″
Large Dia.	1B	3″x4″	4″	11″	6½″	9″
Small Dia.	2A	2″x3″	3″	9″	5½″	7½″
Small Dia.	2B	3″x4″	4″	10″	6″	7½″
Fleur-de-lis	3A	2″x3″	3″	9″	5½″	7½″
Fleur-de-lis	3B	3″x4″	4″	10″	6″	7½″

Note: The above standard types can be supplied to fit other standard sizes of downspouts.

Stock downspouts

Chase Copper Downspouts are made in lengths of 10 feet. The corrugations are deep and even, which is a genuine protection against bursting from ice expansion. The seams are tightly locked with a power press and are uniform throughout the entire length. Each length is die-stamped with the Chase trade-mark and "16-oz.", which is your protection against downspouts made from light weight copper sheets.

Chase Copper Downspouts come in three types and five sizes; plain round and corrugated round in 2, 3, 4, 5 and 6 inch diameters; corrugated square in 2, 3, 4 and 5 inch sizes. All downspouts are normally carried in stock in 10-ft. exact lengths.

Copper elbows and shoes

Chase Copper Elbows and Shoes are made for 2″, 3″, 4″, 5″ and 6″ downspouts. Elbows are made in four types; No. 1—45°, No. 2—60°, No. 3—75°, No. 4—90° angle. Shoes are made in No. 3—75° angle only. The ends of all Chase Shoes are strongly reinforced at the open ends so they can't be easily dented.

Square corrugated elbows and shoes are made in two styles; A is the style which has its long side against the wall; B is the style which has its short side against the wall.

Downspout heads

Where strict economy must be practiced, any of the stock patterns of Chase Copper Downspout Heads, Small Diamond, Large Diamond or Fleur-de-lis, are acceptable for the average building. Their simple, good-looking designs adapt them to almost any style architecture. Quantity production permits very reasonable prices on these stock patterns.

All downspout heads are available with either round or square outlets, and any of the stock patterns can be supplied lead coated.

Architects often design their own leader heads to harmonize with the individual design of a building. These specially designed leader heads can be made to order from architect's drawings. In making specially designed leader heads the greatest care is taken to follow blueprints, drawings and specifications accurately.

Mitres, ends, outlets and caps

Chase copper mitres are made to fit all single and double bead half round gutters and style "K" box gutters in 10″ and 12″ girths. Chase copper end pieces with outlet only are made to fit single and double bead half round gutters. Chase round and square copper outlets are made in 2″, 3″, 4″, 5″ and 6″ sizes. There is an adequate flange on the top of the outlet for soldering the outlet to the gutter. Lap joint end caps are available for 4″, 5″ and 6″ gutters. Slip joint end caps are made for 4″, 5″, 6″ and 7″ gutters. Lap joint and slip joint end caps will fit single bead and double bead gutters. End pieces and end caps for style "K" box gutters are made in 10″ and 12″ girths. End pieces for all other box gutters are made to order.

CHASE® copper nails

copper wire and cut nails

Chase Copper Wire and Cut Nails are available in a large variety of types and sizes. There is a Chase nail to fill practically every need of the roofer. Chase nails have heads and shanks of a uniform size and they drive straight and true because the head is well centered. Nails are measured in size according to the type of head. Flat Head Nails are measured from under the head to the end of the point. Flat countersunk head nails are measured over-all from the top of the head to the end of the point. Oval and round countersunk head nails are measured from the largest diameter of the countersunk head to the end of the point.

copper wire nails

Chase Copper Wire Nails are available in many standard and special sizes. They are the same shape as the common steel nail. They have a flat head and a diamond point and are recommended for general usage where a non-rusting corrosive resistant nail is required.

cut copper clout nails

Clout Nails have a flat head and the same holding advantages as the regular cut copper nail. However, in some cases, Clout Nails are preferred because they have slender shanks that drive through thin boards easily and the points can be bent over (clinched) without splitting the wood after the nail is driven.

copper storm nails

This nail has a large octagonal head made of copper strip that is strong and rigid. The head is also dished so that it will set flat and firmly against the sheathing. Storm Nails are carried in stock in ¾″ and 1⅛″ lengths with No. 14 Stubs Gauge Shanks. These shanks are clenched securely into the center of the head so they won't break loose.

copper wire slating or roofing nails

Chase Copper Wire Slating or Roofing Nails are available in nine standard sizes and many special sizes. They have a large flat head and a diamond point. The large head prevents the metal from pulling over the nail head. These nails are generally used on shingle, slate and other roofing and sheet metal work.

regular cut copper nails

Chase Cut Copper Nails are stamped out of sheet metal. They have two or three times the holding power of wire nails because the ragged rough edges of the shanks cut through the wood fiber, the round shank of a wire nail spreads the fiber.

cut sheathing nails

Chase Cut Sheathing Nails are available in copper and yellow metal — 1″, 1⅛″ and 1¼″ long.

gutter spikes for box gutters

Oval and Flat Head Copper Gutter Spikes are available in the following sizes: ¼″ dia. 6″ and 7″ long, 3/16″ dia. 7″ long, No. 5 gauge 8″ long.

CHASE BRASS & COPPER CO. — INCORPORATED — WATERBURY, CONN.

Subsidiary of Kennecott Copper Corporation

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